

Ryan Kannanaikal

CONTACT INFORMATION	<i>E-mail:</i> kannanaikal.r@northeastern.edu <i>Website:</i> https://ryka.one
EDUCATION	Northeastern University Ph.D. Mathematics, 2026 Dissertation Title: Strange duality for Abelian Surfaces Advisor: Alina Marian Cornell University B.A. Mathematics, 2020 Budapest Semesters in Mathematics, Spring 2019
RESEARCH INTERESTS	Algebraic geometry: Abelian varieties, moduli theory
HONORS	<i>Math Department Graduate Teaching Award</i> 2024 <i>ICTP Mathematics Research Visitor</i> May 2024 <i>RTG Research Grant</i> Summer 2025
TALKS	<i>Graduate Student Seminar, Northeastern</i> October 2022 Construction of higher K -theory. <i>Graduate Student Seminar, Northeastern</i> September 2023 Introduction to Lie Groups. <i>Learning Seminar: Stable envelopes and quantum groups, Northeastern</i> Spring 2023 Quiver varieties. <i>Joint Mathematics Meeting, Denver</i> Jan 2020 On the Ramsey Number $R(K_4, e, K_8 - e)$ <i>Cornell Undergraduate Math Club</i> Mar 2020 The Jones Polynomial
TEACHING EXPERIENCE	Northeastern University <i>Course Instructor</i> Math 1251: Calculus and Differential Equations for Biology 1, Fall 2021. <i>Teaching Assistant</i> Math 3175: Group Theory, Spring 2025, Spring 2026. <i>Teaching Assistant</i> Math 4527: Number Theory 2, Spring 2024.

Teaching Assistant

Math 3527: Number Theory, Summer 2024, Summer 2025.

Head Teaching Assistant

Math 1365: Introduction to Math Reasoning, Spring 2022.

Head Teaching Assistant

Math 1365: Introduction to Math Reasoning (Honors), Fall 2023.

Teaching Assistant

Math 3543: Dynamics, Chaos and Fractals, Summer 2023.

Teaching Assistant

Math 2321: Calculus III, Fall 2022, Spring 2023, Fall 2024.

Teaching Assistant

Math 3530: Numerical Analysis, Fall 2020.

Cornell University

Teaching Assistant

Introduction to Machine Learning and Data Science, Fall 2017.

OTHER ACTIVITIES	<i>REU Mentor</i>	Summer 2022
	Topic: Knot polynomials and Khovanov homology	
	Mentored students through the summer on introductory math research through the Mathematics Research Experience for Undergraduates program.	
	<i>Undergraduate Directed Reading Program</i>	Spring 2022
	Guided undergraduate students at Northeastern through a reading on introductory algebraic geometry.	
	<i>REU at Rochester Institute of Technology</i>	Summer 2019
	Topic: On the Ramsey Numbers of $(K_4 - e)$ -free graphs.	
	<i>Tutor for Cornell Math Support Center</i>	Spring 2020